

ABSTRACT

[0038] The system and method of the present invention provides comprehensive design and installation management for agricultural water management systems. Maps and grade profiles are created from data collected by Global Positioning devices in the field. Latitude, longitude, and elevation are triangulated from GPS data to develop contour, grade, and profile maps, used to design drainage systems in real time. Customer billing information and vendor pricing information are produced from map and grade profile data. Interfacing and machine control for machines used to install drainage and/or irrigation systems are generated from contour, grade and profile data. Data is exported and imported in common file formats for efficient data exchange.